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David W. Hight, VP & Chief IP Counsel Becton, Dickinson and Company (Hoffman & Baron) 1 Becton Drive, MC 110 Franklin Lakes, NJ 07417-1880			EXAMINER	
			HAQ, SHAIFIQUL	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/560,210	Applicant(s) SHORT ET AL.
	Examiner SHAFIQU L HAQ	Art Unit 1641

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED. (35 U.S.C. § 133).

Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 03 February 2009.
 2a) This action is FINAL. 2b) This action is non-final.
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 85-122 is/are pending in the application.
 4a) Of the above claim(s) 88,89,95,97-101,104-107 and 110 is/are withdrawn from consideration.
 5) Claim(s) _____ is/are allowed.
 6) Claim(s) 85-87,90-94,96,102,103,108,109 and 111-122 is/are rejected.
 7) Claim(s) _____ is/are objected to.
 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.
 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892)
 2) Notice of Draftperson's Patent Drawing Review (PTO-948)
 3) Information Disclosure Statement(s) (PTO/SB/08)
 Paper No(s)/Mail Date _____

4) Interview Summary (PTO-413)
 Paper No(s)/Mail Date _____

5) Notice of Informal Patent Application
 6) Other: _____

DETAILED ACTION

1. Applicants' amendments and arguments filed 2/3/09 is acknowledged and entered.
New claims 88, 89, 95, 97-101 and 104-107 and 110 do not read on the elected species (see Applicants election of species filed 7/10/08 and office action of 11/3/08). Accordingly, claims 88, 89, 95, 97-101, 104-107 and 110 are withdrawn from further consideration as being directed to a non-elected species. See 37 CFR 1.142(b) and MPEP § 821.03.
2. Claims 85-87, 90-94, 96, 102-103, 108-109 and 111-122 are examined on merits in this office action.

Claim Rejections - 35 USC § 112

3. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

4. Claims 85-87, 90-94, 96, 102-103, 108-109 and 111-122 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

The MPEP states that the purpose of written description requirement is to ensure that the inventor had possession, as of the filing date of the application, of the specific subject matter later claimed. The MPEP lists factors that can be used to

determine if sufficient evidence of possession has been furnished in the disclosure of the application. These include "level of skill and knowledge in the art, partial structure, physical and/or chemical properties, functional characteristics alone or coupled with a known or disclosed correlation between structure and function, and the method of making the claimed invention." See MPEP § 2163. MPEP 2111 states that the broadest reasonable interpretation of the claims must also be consistent with the interpretation that those skilled in the art would reach. In re Cortright, 165 F.3d 1353, 1359, 49 USPQ2d 1464, 1468 (Fed. Cir. 1999). Further, MPEP 2111.01 states that the words of a claim must be given their "plain meaning" unless they are defined in the specification. While the claims of issued patents are interpreted in light of the specification, prosecution history, prior art and other claims, this is not the mode of claim interpretation to be applied during examination. During examination, the claims must be interpreted as broadly as their terms reasonably allow. In re American Academy of Science Tech Center, 367 F.3d 1359, 136~, 70 USPQ2d 1827, 1834 (Fed. Cir. 2004).

The term "binding entity" is defined in the specification as any entity which interacts covalently or non-covalently with functional group on the plasma polymerized surface (page 4, lines 14-15) and thus the term encompasses a large number of compounds besides the compounds as described for binding entity in the specification. As described in the specification (page 4, lines 18-22) and as claimed in claim 87, the term "binding entities" encompasses various substances which include cells, metabolites, pharmaceutically active agents, proteins, cells, hormones,

antibodies, enzyme, receptor; macromolecules, DNA, RNA, protein fragments, peptides, polypeptides, ligands, proteoglycans, carbohydrates, nucleotides, oligonucleotides, toxic reagents, chemical species. However, for "binding entity onto which a cell can attach", specification teaches only certain chemical groups (e.g. carboxyl, amine functional group) (page 4, lines 24-26) but does not have adequate written descriptive support or guidance for all binding entities or for all binding entities disclosed in the specification such as cells, metabolites, pharmaceutically active agents, hormones and enzymes onto which a cell can attach. Specification does not have adequate guidance as to what type of cell(s) be used as binding entity onto which any cell can attach. Note that the term "a cell" encompasses any cell. Specification does not have any guidance or example as to what metabolites of pharmaceutically active agents be used as a binding entity onto which any cell can attach. Specification does not have any guidance or example for a hormone as a binding entity onto which any cell can attach.

Accordingly, it is deemed that the specification fails to provide adequate written description and clear guidance for all compound encompassed by the term "binding entities" and does not reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the entire scope of the claimed invention.

5. Claim 120 is rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement (New matter). The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably

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convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

The recitation "non-plasma polymer deposited regions that are comprised of polymerized tetraethyleneglycol monoallyl ether" in new claim 120 does not have adequate support on the specification. Specification recites the following in lines 14-20 and 6-10 on pages 6 and 7 respectively:

Page 6:

In a further preferred method of the invention said surface comprises at least one
15 plasma polymer of at least one monomer wherein the concentration of said plasma
polymer is non-uniform across said surface, or part thereof.

In a further preferred method of the invention, said surface comprises of two or more
plasma polymers of two or more monomers, wherein the concentration of at least one
20 plasma polymer is non-uniform across said surface, or part thereof.

Page 7:

→ In yet still a further preferred method of the invention said monomer is at least one of
selected from the group consisting of: N-vinyl pyrrolidone; allyl alcohol; acrylic acid;
octa-1,7-diene; allyl amine; perfluorohexane; tetraethyleneglycol monoallyl ether; or
10 hexamethyl disiloxane (HMDSO).

However, there is no disclosure in the specification or guidance that teaches plasma deposited region and non-plasma deposited region and wherein the non-plasma deposited region is comprised of polymerized tetraethyleneglycol monoallyl ether. New or amended claims which introduce elements or limitations which are not supported by the as-filed disclosure violate the written description requirement. See, e.g., *In re Lukach*, 442 F.2d967, 169 USPQ 795 (CCPA 1971).

6. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

7. Claims 85-87, 90-94, 96, 102-103, 108-109 and 111-122 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 85 recites the phrase 'coating at least part of the plasma polymer deposit with a binding entity onto which a cell can attach to define a heterogeneous binding surface'. The phrase is confusing as to whether the definition of the heterogeneous surface includes attached cells or not. Note that the term "can attach" is not a positive recitation and does not indicate actual attachment or in an attached state.

Claim Rejections - 35 USC § 103

8. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

9. Claims 85, 86, 96, 102, 103, 108, 121 and 122 are rejected under 35 U.S.C. 103(a) as being unpatentable over Winter-Jensen (WO 02/32591).

Winter-Jensen discloses a method of preparing a material for binding of biomolecules comprising coating a polymer gradient on at least a part of the surface of a substrate by plasma polymerization process (see "Abstract and "FIELD OF THE INVENTION") wherein the plasma polymerization process involves steps of moving the part of the substrate on which the plasma polymerization is intended relative to

the reaction chamber (page 14, lines 4-14). Winter-Jensen teaches that the substrate is moved in the direction corresponding to the direction of the desired gradient. Jensen *et al* further teach that the polymer coating gradient may be in the form of a polymer coating which varies in chemical composition so that it varies along the surface of the substrate in a graduating pattern, preferably so that the composition is varied in concentration of one or more components and/or in the form of a mixture of two or more compounds which is varied with respect to the amount of the respective compounds stepwise or continuously along the surface of the substrate (page 7, lines 26-31). Winter-Jensen teaches that monomers for plasma coating may be mixtures of monomers including at least mixtures of acrylic acid and cyanoacrylate, mixtures of acrylic acid and ethylene diamine, mixtures of acrylic acid and allylamine, or mixtures of vinyacetic acid and allylamine and the plasma polymer comprising the above monomeric mixtures would be capable of attaching cells as the polymeric surface would contain a functional group such as carboxylic group.

That is Winter-Jensen teaches deposition of non-uniform plasma polymer (heterogeneous chemically and physically) wherein the coating process includes binding entity (i.e. a functional group: see specification which states that binding entity may comprise a chemical functional group such as a carboxyl or amine functional group: page 4, lines 25-26). However, Jensen *et al* do not disclose coating of the plasma polymer separately with a binding entity.

However, coating the binding entity separately or simultaneously for preparing the non-uniform coated surface, is viewed as routine variation in sequence of processing and as optimization process and which have not been described as critical to the practice of the invention and thus is obvious over the prior art. See also In re Burhans, 154 F.2d 690, 69 USPQ 330 (CCPA 1946) (selection of any order of performing process steps is *prima facie* obvious in the absence of new or unexpected results); In re Gibson, 39 F.2d 975, 5 USPQ 230 (CCPA 1930) (Selection of any order of mixing ingredients is *prima facie* obvious.).

With regard to claims 86, 96, 102 and 108, Winter-Jensen teaches acrylic acid for plasma monomer, which comprises a carboxyl group and acrylic acid is considered as a volatile acid.

With regard to claim 103, Winter-Jensen teaches that preferred polymer gradient coating being made from monomers selected the group consisting of acrylic acid, methacrylic acid and vinylacetic acid (page 9, lines 8-11), which provides one to select a single monomer for the polymer coating.

With regard to claims 121 and 122, Winter-Jensen teaches that the substrate may be selected from polyethylene, polypropylene, silicon rubbers, glass, paper and metals (page 6, lines 8-13).

10. Claims 87, 90-93, 109 and 112-119 are rejected under 35 U.S.C. 103(a) as being unpatentable over Winter-Jensen (WO 02/32591) in view of Chu *et al* (Materials Science and Engineering 2002) and further in view of Timmons *et al* (US 5,876,753).

See the above teaching of Winter-Jensen (WO 02/32591). Winter-Jensen teaches providing heterogeneous surface from plasma monomer but does not mention about the bond formation of the plasma monomers and bonding to biomolecules (e.g. binding entities).

Chu *et al* teach modification of biomaterial surface using plasma deposition (see title) and teach mechanism of plasma polymerization process which involves activation of monomers to radicals, recombination of the formed radicals and reactivation of the recombined radicals providing cross-linked, fragmented and rearranged units from the monomers (paragraph 2.2.3.2). Therefore, plasma polymerization involves covalent bond formation between the plasma monomers and thus forms co-polymers from different plasma monomers.

Timmons *et al* (US 5,876,753) teach methods of plasma deposition of reactive functional groups (column 9, lines 4-24) on a surface of a solid support to provide reactive surface (see abstract) followed by chemical derivation process in which desired molecules are covalently bound to the surface via simple chemical reaction (column 3, lines 40-44). Timmons *et al* teach deposition heterogeneous organic compounds comprising functional group using plasma deposition process and target materials (e.g. proteins, peptides, saccharides, hormones, receptors, polynucleotides, oligonucleotides, carbohydrates etc.) added to the activated surface by reaction with the reactive group (column 3, lines 46-56; column 4, lines 29-36; column 6, lines 1-26 and column 10, lines 1).

Therefore, given the fact that plasma polymerization involves covalent interactions among plasma monomers (*Chu et al.*), one of ordinary skill in the art, from the information of the polymerization process as taught by Chu, would readily appreciate co-polymer formation among the plasma monomers of Winter-Jesen having bonded covalently and since specification states that binding entity may comprise a chemical functional group such as a carboxyl or amine functional group (page 4, lines 25-26), one of ordinary skill in the art would consider carboxyl containing plasma monomer as binding entity in monomeric mixture for plasma deposition in the method of Winter-Jensen because Winter-Jesen teaches that monomers for plasma coating may be mixtures of monomers including at least mixtures of acrylic acid and cyanoacrylate, mixtures of acrylic acid and ethylene diamine, mixtures of acrylic acid and allylamine, or mixtures of vinyacetic acid and allylamine and the plasma polymer comprising the above monomeric mixtures would be capable of attaching cells as the polymeric surface would contain a functional group such as carboxylic group. Therefore, the immobilization, linkage and covalent bond formations of the binding entity as claimed in claims 90-93 are considered as obvious interactions in view of the known teaching of Winter-Jensen and *Chu et al.* Further, the derivatization of the plasma deposited surface of Winter-Jensen with binding entity such as proteins, nucleic acids, hormones etc. would also be obvious to one or ordinary skill in the art because Winter-Jensen surface is for binding of organic compounds such as proteins (page 1, lines 5-7) and Timmons *et al* teach that functionalized plasma polymerized surface can be derivatized with various

binding entities such as proteins, nucleic acids, hormones etc. (column 4, lines 29-47) to provide solid surface comprising binding entities (column 3, lines 46-47).

With regard to claim 87, Timmons *et al* teach deposition heterogeneous organic compounds comprising functional group using plasma deposition process and target materials (e.g. proteins, peptides, saccharides, hormones, receptors, polynucleotides, oligonucleotides, carbohydrates etc.) added to the activated surface by reaction with the reactive group (column 3, lines 46-56; column 4, lines 29-36; column 6, lines 1-26 and column 10, lines 1) and with regard to claim 109, as described above, Chu *et al* teach mechanism of plasma polymerization process which involves activation of monomers to radicals, recombination of the formed radicals and reactivation of the recombined radicals providing cross-linked, fragmented and rearranged units from the monomers (paragraph 2.2.3.2). Therefore, plasma polymerization involves covalent bond formation between the plasma monomers and thus forms co-polymers from different plasma monomers.

With regard to claims 112-119, as described above, Winter-Jensen teaches a means for moving the substrate through the reaction chamber (page 13, lines 17-19) and control of the reaction chamber (page 13, lines 30-31) for providing heterogeneous surface and Chu *et al* teach providing patterned plasma polymerized surface (see Fig. 15) and therefore, different patterns (e.g. lines, dots) of plasma polymerized surface as required by different applications would be a matter of judicious selection and obvious design choice which is well within the purview of the skilled artisan and therefore obvious under 35 U.S.C. § 103(a).

11. Claims 94 and 111 are rejected under 35 U.S.C. 103(a) as being unpatentable over Winter-Jensen (WO 02/32591) in view of Haddow et al (WO 03/035850) and Uhrich et al (US 2003/0104614).

See the above teaching of Winter-Jensen for a substrate wherein the substrate comprises a non-uniform plasma polymerized surface. Winter-Jensen fail to teach binding of cells to the plasma polymerized surface.

Haddow *et al* disclose plasma polymerized surface having functional groups (e.g. carboxylic acid, alcohol) (page 4, lines 1-2) useful for adhering and culturing cells (abstract and page 4, lines 28-30). Haddow *et al* teach that by plasma polymerization, it is possible to modify surface chemistry without affecting the bulk properties of the substrate and to deposit a range of different types of surfaces (page 4, lines 18-24) and is advantageous because the surface have unique chemical and physical characteristics (page 3, lines 3-4 and page 4, lines 25-26). Haddow *et al* teach the surface produced by plasma polymerization is particularly useful as a substrate for cell culture (page 5, lines 21-25; page 13, lines 13-25).

Uhrich *et al* teach patterned areas of a substrate for making patterns of biologically active molecules useful for spatially directing cell growth, tissue regeneration, screening studies and multiple analytical biosensor (see abstract and paragraph [0002]).

Therefore, given the fact that plasma polymerized surface is useful for adhering and growth of cells (Haddow *et al*) and culturing of cells in a pre-selected region (i.e. patterned surface) is very useful and known in the art (Uhrich *et al*), it would be

obvious to one of ordinary skill in the art at the time the invention was made to consider providing Winter-Jensen with patterned plasma polymerized surface for adhering of cells because Haddow *et al* teach plasma polymerized surface is useful for cell attachment and culture and because patterns can be provided by movement of the substrate relative to source of plasma (Winter-Jensen *et al*. Since, Winter-Jensen teaches that various functional groups can be introduced during plasma polymerization using different polymerisable monomers and patterned surfaces with desired functional groups as needed for attachment of various biomolecule can be produce with the plasma deposition process of Winter-Jensen.

With regard to claims 94, Haddow et al teach attachment of cells to plasma polymerized surface (page 4, lines 1-2, 18-20 and page 5, lines 17-27) and cells comprises carboxyl or amine functional group.

With regard to claim 111, Haddow *et al* disclose polymerizable monomers having vapour pressures of at least 6.6×10^{-2} mbar (page 7, lines 9-12).

Double Patenting

12. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

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A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

13. Claims 85, 86, 87, 90-94, 96, 102, 103, 108, 109 and 111-122 are provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 41-77 of copending Application No. 10/509,431 in view of in view of Haddow et al (WO 03/035850) and Uhrich et al (US 2003/0104614).

Claim 41 of copending application 10/509,431 discloses a method for preparing a heterogenous surface on a substrate comprising: depositing a plasma polymer on the substrate using at least one organic compound monomer as a source of plasma; and moving at least one of:

- (i) the source of plasma, and
- (ii) the substrate,

relative to one another during plasma deposition such that at least part of the substrate has a plasma polymer deposit that has non-uniform characteristics selected from the group consisting of being heterogenous chemically, heterogeneous physically, and combinations thereof to define the heterogeneous surface.

Claims of the copending application 10/509,431 do not disclose coating at least part of the plasma polymer deposit with a binding entity onto which a cell can attach.

Haddow *et al* disclose plasma polymerized surface having functional groups (e.g. carboxylic acid, alcohol) (page 4, lines 1-2) useful for adhering and culturing cells (abstract and page 4, lines 28-30). Haddow *et al* teach that by plasma polymerization, it is possible to modify surface chemistry without affecting the bulk properties of the substrate and to deposit a range of different types of surfaces (page 4, lines 18-24) and is advantageous because the surface have unique chemical and physical characteristics (page 3, lines 3-4 and page 4, lines 25-26). Haddow *et al* teach the surface produced by plasma polymerization is particularly useful as a substrate for cell culture (page 5, lines 21-25; page 13, lines 13-25).

Uhrich *et al* teach patterned areas of a substrate for making patterns of biologically active molecules useful for spatially directing cell growth, tissue regeneration, screening studies and multiple analytical biosensor (see abstract and paragraph [0002]).

Therefore, given the fact that plasma polymerized surface is useful for adhering and growth of cells (Haddow *et al*) and culturing of cells in a pre-selected region (i.e. patterned surface) is very useful and known in the art (Uhrich *et al*), it would be obvious to one of ordinary skill in the art at the time the invention was made to consider the plasma polymerized surface of the copending application for adhering of cells because Haddow *et al* teach plasma polymerized surface is useful for cell attachment and culture and because patterns can be provided by movement of the substrate relative to source of plasma.

With regard to claims 86-87, cells comprise amine and carboxyl functional group (see paragraph [0029] of Uhrich's) and with regard to claims 90-94, Haddow *et al* teach providing various functional group on plasma polymerized surface for attachment of cells (page 2, lines 30-31; page 4, lines 1-2 and 28-30) and thus various interaction of cells with the functional groups such as covalent and non-covalent interaction would be obvious to one of ordinary skill in the art absent unexpected results.

With regard to claims 94, Haddow *et al* teach attachment of cells to plasma polymerized surface (page 4, lines 1-2, 18-20 and page 5, lines 17-27) and cells comprises carboxyl or amine functional group.

With regard to claims 96, 103, 108, 109 and 111-122, the various limitations are disclosed in claims of the copending application and while limitations are claimed in different orders, the various limitations of the present claims 96, 103, 108, 109 and 111-122, are also claimed in this copending case,

This is a provisional obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Response to argument

14. Applicant's arguments and amendments filed 2/3/09 have been fully considered and are persuasive to overcome the rejections of 11/3/08 under 35 U.S.C. 112 second paragraph, 35 U.S.C 102(b) and 35 U.S.C 103(a). However, applicant amendments and arguments with respect to claims 85-87, 90-94, 96, 102-103, 108-109 and 111-122 have been rendered moot in view of the new ground(s) of rejections as

described in this office action necessitated by Applicants' amendment and a further review of the claims.

Conclusion

15. No claims are allowed.
16. Any inquiry concerning this communication or earlier communications from the examiner should be directed to SHAFIQUL HAQ whose telephone number is (571)272-6103. The examiner can normally be reached on 7:30AM-4:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark L. Shibuya can be reached on 571-272-0806. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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/Shafiqul Haq/
Examiner, Art Unit 1641